PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

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P00507396*PB50739 OZ 00204 WI AD: 08.02.2007 ED: 20.02.2007 SB: Ki IPCT/IB/338: Bestätigung der

Date of mailing (day/month/year) 08 February 2007 (08.02.2007)

Applicant's or agent's file reference OZ 00204-WO

International application No. PCT/EP2005/051212 IMPORTANT NOTIFICATION

International filing date (day/month/year) 16 March 2005 (16.03.2005)

Applicant

Kuraray Specialities Europe GmbH et al

l.	Transmittal	of the	translation	to	the applicar	nŁ

]	The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).
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| The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Form PCT/IB/338 (January 2004)

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PATENT COOPERATION TREATY

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

OZ 0020	ent's file reference 4-WO	FOR FURTH	ER ACTION	See Form PCT/IPEA/416		
International application No.			ng date (day/month/year)	Priority date (day/month/year)		
PCT/EP2	005/0512	12 16.03.2	:005	17.03.2004		
1	ent Classification (IPC) or national classification 47/04	and IPC			
Applicant Kuraray	Special	ities Europe (SmbH			
		tional preliminary examination		International Preliminary Examining Authority		
2. This R	EPORT consists of	a total of	sheets, includi	ng this cover sheet.		
3. This re	port is also accomp	oanied by ANNEXES, compri	sing:			
a. 🗵	(sent to the ap	plicant and to the Internation	al Bureau) a total of 13	sheets, as follows:		
	sheets of	f the description, claims and/o ontaining rectifications author	r drawings which have been	amended and are the basis for this report and/or tule 70.16 and Section 607 of the Administrative		
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
ъ. Г	7	t <i>ernational Bureau only)</i> a tot	al of (indicate time and numb	ner of electronic anning (a))		
٣] (sem to the th	termanonan Dureau Onty) a tot	an or (moreate type and mumo	er of electronic carrier(s))		
	containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This re	port contains indic	ations relating to the following	g items:			
\boxtimes	Box No. I	Basis of the report				
	Box No. II	Priority				
				ntive step and industrial applicability		
	Box No. IV Lack of unity of invention					
\boxtimes	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the internat	ional application			
\boxtimes	Box No. VIII Certain observations on the international application					
Date of submission of the demand Date of completion of this report			his report			
Name and mailin	Name and mailing address of the IPEA/EP					
Facsimile No.			Telephone No.			

International application No.
PCT/EP2005/051212

Bo	x No. I	1	Basis of the report				
ì.	Witl indi	h regard cated un	to the language, this report is based on the internation	onal application in the language in	which it was filed, unless otherwise		
		which	port is based on translations from the original langua is the language of a translation furnished for the purp international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4 international preliminary examination (Rule 55.2 and	xxxx of:	<u> </u>		
2.	rece	riving Of report): the inte	to the elements of the international application, this fice in response to an invitation under Article 14 an ernational application as originally filed/furnished scription:				
		pages			as originally filed/furnished 18.01.2006 with letter		
		pages*			of 13.10.2005		
		pages*		received by this Authority on			
		the cla	ims:				
		200	· · · · · · · · · · · · · · · · · · ·		as originally filed/furnished		
		nos.*	1.10		r with any statement) under Article 19 18.01.2006 with letter		
		nos.*	1-10		of 13.10.2005		
	M	nos.*		received by this Authority on			
		the dra	wings:				
		sheets sheets*	1/3-3/3	received by this Authority on	as originally filed/furnished 18.01.2006 with letter of 13.10.2005		
		sheets*		received by this Authority on			
ĺ		a seque	ence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence L	isting.		
3.		The an	nendments have resulted in the cancellation of:				
			he description, pages				
			he claims, nos.				
			he drawings, sheets/figs				
			he sequence listing (specify):				
			ny table(s) related to sequence listing (specify):				
4.		This re	eport has been established as if (some of) the amend we been considered to go beyond the disclosure as fil	lments annexed to this report and led, as indicated in the Supplemen	listed below had not been made, since at al Box (Rule 70.2(c)).		
			he description, pages				
			he claims, nos.				
			he drawings, sheets/figs				
			he sequence listing (specify):				
	any table(s) related to sequence listing (specify):						
Ŀ	If ite	m 4 app	lies, some or all of those sheets may be marked "supe	erseded."			

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Bo	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statemen					
	Novel	lty (N)	C	Claims	1-10	YES
			c	Claims _		_ NO
	Inven	tive step (IS)	_	Taims .		YES
		* (*-)		_	1-10	_ NO
				_		_
	Industrial applicability (IA)			Claims _	1-10	_ YES
				Claims _		_ NO
2.	Citations	and explanat	tions (Rule 70.7	')		
	1	Refere	nce is m	ade to	o the following documents:	
		D1:			A (BLECKMANN ET AL) 26 July 1994	
	(1994-07-26)					
					A (KNAUS ET AL) 2 March 1993 (1993-03-02) Al (GENERAL ENGINEERING CO. LTD; PLCV	
					(, GB) 1 March 1979 (1979-03-01)	
	·				A (E.I. DU PONT DE NEMOURS AND COMPANY;	
					A, P. + EF; KEANE, JOH) 19 September 1996	
			(1996-0	9-19)		
	2 INDEPENDENT CLAIM 1					
	2.1	The fo	ollowina	comme	nts relate to requirements of PCT Article	
			-		account the comments related to Box VIII.	
		Where	necessar	y, un	derlining is used to indicate the lack of	
		clear	definiti	.on.		
	Document D1 discloses (and the references between parentheses relate to said document): a method for coextrusion of at least					
	two polymeric melt streams having different composition,					
	comprising the following steps in a process:					
		a)	melting	of a	polymer material	
		• •				
		p)	dividir	ng the	e melt into at least two melt streams	
		c)	meterin	ng add	ditives into at least one melt stream and	

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

d) bringing the melt streams together with coextrusion in one or more extrusions dies, cf. document D1, column 4, lines 4-29 and figure.

The subject matter of claim 1 therefore differs from the known processes in that the polymer material is based on polyvinyl butyral or on a terpolymer having ethylene units, vinyl acetate units and vinyl alcohol units.

Claim 1 is therefore novel under PCT Article 33(2).

The problem addressed by the present invention can therefore be considered that of providing a process in which the changeover times for additives are reduced, cf. page 3, paragraph [0009].

Because the originally submitted description and dependent claims disclose PVB and terpolymers as equivalent alternatives to other polymers with regard to this problem, the Examining Body is unable to confirm the presence of inventive step in the present solution, see also PCT Guidelines 5.18.

The feature "that the polymer material is based on polyvinyl butyral or on a terpolymer having ethylene units, vinyl acetate units and vinyl alcohol units" appears rather to be one of several obvious possibilities from which a person skilled in the art would choose according to the circumstances, without thereby being inventive, cf. PCT Guidelines 13.14(e). See Box VIII, 1.1.

The requirement of PCT Article 33(3) is therefore not met.

- 2.2 Documents D2 and D3 also disclose steps a) d) according to point 2.1 in a process, cf. passages cited in the search report.
- 3 DEPENDENT CLAIMS 2-10

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Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Claims 2-10 appear not to contain any features which, in combination with the features of any claim to which they refer, meet the PCT requirements for inventive step.

- 3.1 The fact that melt stream is conducted through a dynamic or static mixing section, according to claim 2, is known from documents D1, cf. column 4, lines 18-20 and D3, page 13, lines 8-13.
- 3.2 Incorporation of additives by mixing via a dynamic mixer, according to claim 3, is known from document D3, cf. page 13, lines 8-13.
- 3.3 Filtration of melts according to claims 4 and 5 is known from document D4, cf. page 5, lines 13-16.
- 3.4 An extrusion die with a wedge-shaped or torpedo-shaped region, according to claim 6, is known from documents D1, cf. figure, and D2, cf. figure 3.
- 3.5 Incorporation of an additive by mixing according to claims 7 and 8 is known from document D1, cf. column 2, lines 56-64.
- 3.6 A process with two different colours according to claim 9 is known from document D2, cf. claim 1, and figures 4A and 4B.
- 3.7 A process for production of multicoloured films according to claim 10 is known from document D5, cf. column 1, lines 56-66 and figure 4.
- 4 INDUSTRIAL APPLICABILITY

Claims 1-10 refer to subject matter which meets the requirements of industrial applicability (PCT Article 33(4)).

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- The alternatives are disclosed alongside one another and in equivalent manner in the original description and there is no preferred selection from the group of terpolymers and polyvinyl butyral, PCT Guidelines 13.14(e)(iv).
- 1.1 The term "metering" used in claim 1 and the amended description has been interpreted as "mixing" for the purposes of the procedure. It should be noted that the term "metering" introduces substantive matter which, contrary to PCT Article 19(2) goes beyond the disclosure in the international application as filed.
- 1.2 The term "and/or" used in claim 1 has been interpreted as having its widest meaning in this opinion for purposes of delimitation of the claims.
- 1.3 Similar considerations apply to dependent claims 2, 5, 7 and 8.